

10/591540

IAP9 Rec'd PCT/PTO 01 SEP 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : Unassigned Confirmation No.: Unassigned  
Applicant : Claus FROHBERG et al.  
Filed : September 1, 2006  
Title : PLANTS WITH REDUCED ACTIVITY OF A STARCH  
PHOSPHORYLATING ENZYME  
TC/Art Unit : Unassigned  
Examiner: : Unassigned  
Docket No. : 65084.000023  
Customer No. : 21967

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants submit herewith copies the references listed on the attached Form PTO-SB/08A (modified) for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application.

This Information Disclosure Statement (IDS) is not to be construed as a representation that a search has, or has not, been conducted or that no better art exists. The filing of this IDS is not to be construed as admission that the information cited in the IDS is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP § 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is believed to be submitted within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); therefore, it is respectfully submitted that no fee is required for consideration of this information. However, if a fee is required, the

Patent Application Corresponding to PCT/EP2005/002450  
Attorney Docket: 65084.000023

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IAP9 Rec'd PCT/PTO 01 SEP 2006

Commissioner is hereby authorized to charge any fee, or credit any overpayment, to Deposit  
Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: September 1, 2006

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DZB/cbc

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PTO/SB/08B (08/03) (modified)

U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Application Number</b>	Unassigned
		<b>Filing Date</b>	September 1, 2006
		<b>First Named Inventor</b>	Claus FROHBERG et al.
		<b>Art Unit</b>	Unassigned
		<b>Examiner Name</b>	Unassigned
<b>Sheet</b>	1 of 2	<b>Attorney Docket Number</b>	65084.000023

## OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
		Alonso et al.; <i>Genome-Wide Insertional Mutagenesis of Arabidopsis thaliana</i> ; Science, August 1, 2003; Vol. 301; pp. 653 - 657	<input type="checkbox"/>	<input type="checkbox"/>
		Sitohy et al.; <i>Optimizing the Conditions for Starch Dry Phosphorylation with Sodium Mono- and Dihydrogen Orthophosphate under Heat and Vacuum</i> ; Starch/Stärke; 2000; Vol. 52; No. 4; pp. 95 - 100	<input type="checkbox"/>	<input type="checkbox"/>
		Kötting et al.; <i>Identification of a Novel Enzyme Required for Starch Metabolism in Arabidopsis Leaves. The Phosphoglucan, Water Dikinase</i> ; Plant Physiology, January 2005, Vol. 137, pp. 242 - 252; XP-002339144	<input type="checkbox"/>	<input type="checkbox"/>
		Baunsgaard et al.; <i>A novel Isoform of Glucan, Water Dikinase Phosphorylates Pre-Phosphorylated <math>\alpha</math>-glucans and is Involved in Starch Degradation in Arabidopsis</i> ; The Plant Journal, 2005, Vol. 41, pp. 595 - 605; XP-002339143	<input type="checkbox"/>	<input type="checkbox"/>
		Yu et al.; <i>The Arabidopsis sex1 Mutant is Defective in the R1 Protein, a General Regulator of Starch Degradation in Plants, and Not in the Chloroplast Hexose Transporter</i> ; The Plant Cell; August 2001; Vol. 13, pp. 1907 - 1918; XP002252059	<input type="checkbox"/>	<input type="checkbox"/>
		Blennow et al.; <i>Starch phosphorylation: a new front line in starch research</i> ; Trends in Plant Science; October 2002; Vol. 7, No. 10; pp. 445 - 450	<input type="checkbox"/>	<input type="checkbox"/>
		Jane et al.; <i>Phosphorus in Rice and Other Starches</i> ; Cereal Foods World, November - December 1996; Vol. 41; No. 11; pp. 827 - 832	<input type="checkbox"/>	<input type="checkbox"/>
		Tabata et al.; <i>Studies on Starch Phosphate</i> ; Die Stärke/Starch; 1971; Vol. 23, pp. 267 - 272	<input type="checkbox"/>	<input type="checkbox"/>
		Blennow et al.; <i>The distribution of covalently bound phosphate in the starch granule in relation to starch crystallinity</i> ; International Journal of Biological Macromolecules; 2000; Vol. 27, pp. 211 - 218	<input type="checkbox"/>	<input type="checkbox"/>
		Blennow et al.; <i>Starch molecular structure and phosphorylation investigated by a combined chromatographic and chemometric approach</i> ; Carbohydrate Polymers; 2000, Vol. 41, pp. 163 - 174	<input type="checkbox"/>	<input type="checkbox"/>
		Ritte et al.; <i>The starch-related R1 protein is an <math>\alpha</math>-glucan, water dikinase</i> ; PNAS; May 14, 2002; Vol. 99; No. 10; pp. 7166 - 7171	<input type="checkbox"/>	<input type="checkbox"/>
		Lorberth et al.; <i>Inhibition of a starch-granule-bound protein leads to modified starch and repression of cold sweetening</i> ; Nature Biotechnology; May 1998; Vol. 16, pp. 473 - 477; XP002111459	<input type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Filing Date	September 1, 2006
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			YES	NO
		NCBI Sequence Viewer; <i>Novel isoform of glucan, water dikinase phosphorylates pre-phosphorylated alpha-glucans and is involved in starch degradation in Arabidopsis</i> ; March 1, 2005; AY747068	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
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